SUBJECT: Changes Made to the June 1999 Screening Value Table and Text

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TO: Users of the Region 6 Screening Value Table and Text

Several changes were made to the June 1999 update of the Region 6 Human Health Screening Value table and text. These changes are summarized below.

Format- The look of the screening value tables has changed. The tables are now in both Excel and Microsoft Word. The Word table is in landscape orientation with more information included than in the previous table. The MCLs or action levels have been added as well as columns with and without the dermal exposure pathway. When viewing the table on the computer, be sure to have your "header" button turned on. All of the column headings and table descriptors have been done as a header and may not appear on your screen. The headings, however, will print on each page making it easy to tell which screening value goes with what exposure pathway. The same information and more can also be found on the Excel spreadsheet.

Text Revisions- The text has been revised to include more information such as a table with regional background concentrations or ranges. Details concerning the changes made to the screening table are included. The equations have been redone in Wordperfect 8 which improves their readability.

Consistency- Regions 3, 6, and 9 have developed screening level tables that are available on the internet. We are trying to be more consistent with one another. Changes that were made to the Region 6 Human Health Screening Values to accomplish this include changing some chemicals' status to become designated as a volatile organic chemical or changing from volatile to non-volatile. All three regions use the same definition for volatile, but there were several "borderline" chemicals that now should be consistent. Another Region 6 change involved revising all Class C carcinogens to screen at the 10(-6) risk level.

Deletions- Several chemicals were deleted from this update. Most of these chemicals are the deletions that Region 3 made several years ago and have not had any requests to add them back to their table. The purpose of the chemical deletions are to make the review time for revisions shorter and to make the file smaller. The following chemicals were deleted:

Acephate	Chlorsulfuron	Imazaquin	Pentabromodiphenyl ether
Acetone cyanohydrin	Chlorthiophos	Iprodione	Phenmedipham
Acifluorfen	Cyclohexylamine	Isoxaben	Phorate
Ally	Cyromazine	Lactofen	Phosmet
Ally alcohol	Danitol	Linuron	Picloram
Aluminum phosphide	Decabromodiphenyl ether	Londax	Pirimiphos-methyl
Ametryn	Demeton	Maleic hydrazide	Prochloraz
m-Aminophenol	Diallate	Malononitrile	Profluralin
Amitraz	Diethylformamide	Mancozeb	Pronamide
Ammonium sulfamate	Diflubenzuron	Maneb	Propham
Antimony potassium tartrate	Dimethipin	Merphos	Pydrin
Apollo	Dimethoate	Merphos oxide	Quinalphos
Aramite	N,N-Dimethylformamide	Matalaxyl	Savey
Asulam	Dimethyl terephthalate	Methamidophos	Selenourea
Avermectin B1	Diphenamid	Methomyl	Sethoxydim
Bayleton	Direct black 38	2-Methoxyethanol	Systhane
Benefin	Direct blue 6	2-Methoxyethanol acetate	Tebuthiuron
Benomyl	Direct brown 95	2-Methoxy-5-nitroaniline	Temephos
Benzotrichloride	Dodine	2-Methylaniline hydrochloride	Terbacil
Bidrin	1,2-Epoxy-butane	Methyl chlorocarbonate	Terbufos
Biphenthrin (Talstar)	EPTC	4-4'-Methylenebis-benzeneamine	Terbutryn
Bis(2-chloro-1-ethylethyl)ether	Ethephon	Metribuzin	Tetraethyldithiopyrophosphate
Bisphenol A	Ethyl acrylate	Molinate	TCMTB
4-Bromophenyl phenyl ether	Ethylene cyanohydrin	Napropamide	Thiofanox
Bromoxynil octanoate	Ethyl p-nitrophenyl phenylphos-phorothloate	Nitrapyrin	Thiophanate-methyl
Butylphthalyl butylglycolate	Ethylphthalyl ethyl glycolate	3-Nitroaniline	Thiram
Cacodylic acid	Express	4-Nitroaniline	Tralomethrin
Captafol	Fluoridone	Nitroguanidine	Triallate
Carboxin	Flurprimidol	Norflurazon	Triasulfuron
Chloramben	Flutolanil	Octabromodiphenyl ether	2,4,6-Trichloroaniline hydrochloride
Chlorimuron-ethyl	Fluvalinate	Octamethylpyrophosphoramide	Tridiphane
Chloroacetaldehyde	Folpet	Paclobutrazol	Trifluralin
2-Chloroacetophenone	Fosetyl-al	Pebulate	Vernam
4-Chloro-2-methylaniline hydrochloride	Furium	Pendimethalin	
Chlorothalonil	Furmecyclox	Pentabromo-6-chloro cyclohexane	
Chlorpropham	Glufosinate-ammonium		
	Haloxyfop-methyl		
	Harmony		
	Imazalil		

Dermal-

The soil adherence factors changed for both adult and child and an industrial adult adherence factor was added. Default adsorption factors for inorganic chemicals are no longer recommended by the dermal workgroup and this default was deleted from the screening value table. All of the assumptions used for dermal as well as other exposure pathways can be found in the text in the table entitled, Standard Default Factors.

Changes in Toxicity Values, Physical and Chemical Parameters-
While very few toxicity factors changed (acetonitrile and benzene), physical and/or chemical factors were revised for several chemicals. These changes which include changing the molecular weight, the voc status, Henry's law number, physical state, may or may not have made a difference to the actual screening value derived. The chemicals with something changed are acetonitrile, benzene, o-chloronitrobenzene, p-chloronitrobenzene, chromium III, cyanogen, 1,2-dibromo-3-chloropropane, dibromochloromethane, hydrogen sulfide, methylcyclohexane, methylene bromide, alachlor, aldicarb, aldicarb sulfone, 4-aminopyridine, atrazine, captan, cargaryl, carbofuran, chlorobenzilate, chlorpyrifos, dicamba, 2,4-D, diethylstilbestrol, 3,3'-dimethylbenzidine, 1,3-dintrobenzene, 1,4-dintrobenzene, dioxin, endothall, ETU, kepone, maleic anhydride, 2-nitroaniline, p-nitrotoluene, oxamyl, parathion, polybrominated biphenyls, 1,1,1,2-tetrachloroethane, toluene-2-4-diamine, toluene-2-6-diamine, p-toluene, and 1,3,5-trinitrobenzene.